Title:

GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

IN THE CLAIMS

Please amend the claims as follows.

- 1. (Currently Amended) An electronic navigational aid device, comprising: a processor; and
- a memory adapted to communicate with the processor, wherein the processor and memory are adapted to cooperate to access a sequence of maneuvers associated with a sequence of route segments and provide route guidance that accounts for insignificant route segments, including route guidance that modifies a maneuver associated with an insignificant route segment.
- (Original) The device of claim 1, wherein the electronic navigational aid device further 2. comprises a portable electronic navigational aid device.
- (Original) The device of claim 2, wherein the portable electronic navigational aid device 3. includes a personal digital assistant (PDA).
- (Original) The device of claim 2, wherein the portable electronic navigational aid device 4. includes a wireless communications device.
- (Original) The device of claim 1, further comprising a display adapted to communicate 5. with the processor, wherein the display is adapted to provide a visual indication of the route guidance.
- (Original) The device of claim 1, further comprising a speaker adapted to communicate with the processor, wherein the speaker is adapted to provide an audio indication of the route guidance.

Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Page 3 Dkt: 1528.010US1

7. (Original) The device of claim 1, wherein the route guidance that accounts for insignificant segments includes route guidance that nullifies a maneuver associated with an insignificant route segment.

8. (Canceled)

9. (Previously Presented) An electronic navigational aid device, comprising: a processor; and

a memory adapted to communicate with the processor, wherein the processor and memory are adapted to cooperate to:

identify a sequence of route segments and a sequence of maneuvers associated with the route segments,

determine whether a route segment in the sequence of route segments is significant or insignificant,

provide route guidance for a maneuver associated with a significant route segment, and

account for an insignificant route segment prior to providing route guidance for the maneuver associated with the insignificant route segment, wherein accounting for the insignificant route segments includes nullifying some maneuvers associated with insignificant route segments and modifying other maneuvers associated with insignificant route segments.

- 10. (Original) The device of claim 9, wherein the processor and the memory determine whether a segment in the sequence of route segments is significant or insignificant by determining whether the segment has a name.
- 11. (Original) The device of claim 9, wherein the processor and the memory determine whether a segment in the sequence of route segments is significant or insignificant by determining whether the segment has a length less than a predetermined distance.

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Serial Number: 10/032196

Filing Date: December 21, 2001

GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Dkt: 1528.010US1

- (Original) The device of claim 9, wherein the processor and the memory determine 12. whether a segment in the sequence of route segments is significant or insignificant by determining whether the segment has a length less than a length of a successive segment.
- (Original) The device of claim 9, wherein the processor and the memory determine 13. whether a segment in the sequence of route segments is significant or insignificant by determining whether a route guidance maneuver for the segment and a route guidance maneuver for a successive segment qualify for nullification.
- (Original) The device of claim 9, wherein the processor and the memory determine 14. whether a segment in the sequence of route segments is significant or insignificant by determining whether a route guidance maneuver for the segment and a route guidance maneuver for a successive segment qualify for modification, and by modifying the route guidance maneuver for the segment upon determining that the route guidance maneuver for the segment and the route guidance maneuver for the successive segment qualify for modification.
- 15. (Original) The device of claim 9, wherein the processor and the memory determine whether a segment in the sequence of route segments is significant or insignificant by: determining whether the segment has a name; determining whether the segment has a length less than a predetermined distance; determining whether the segment has a length less than a length of a successive segment; and

determining whether a route guidance maneuver for the segment and a route guidance maneuver for a successive segment qualify for nullification or modification.

(Currently Amended) A navigation system, comprising: 16. a server; and

a navigation device adapted to communicate with and retrieve navigation data from the server via a communication channel,

Serial Number: 10/032196

Filing Date: December 21, 2001

Title:

GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Dkt: 1528.010US1

wherein the system is adapted to provide route guidance that accounts for insignificant route segments, including route guidance that modifies a maneuver associated with an insignificant route segment identify a sequence of route segments and a sequence of maneuvers associated with the route segments, determine whether a route segment in the sequence of route segments is significant or insignificant, provide route guidance for a maneuver associated with a significant route segment, and account for an insignificant route segment prior to providing route guidance for a maneuver associated with the insignificant route segment.

- 17. (Currently Amended) The system of claim 16, wherein the route guidance for a maneuver associated with the insignificant route segment that accounts for insignificant segments includes route guidance that nullifies a maneuver associated with an insignificant route segment.
- 18. (Canceled)
- (Canceled) 19.
- (Original) The navigation system of claim 16, wherein the communication channel 20. includes a wireless channel.
- (Original) The navigation system of claim 16, wherein the server includes a remote 21. server.
- (Original) The navigation system of claim 16, wherein the server includes a processor 22. adapted to respond to a request from the navigation device by performing calculations on the navigation data and transmitting the results to the navigation device.
- (Original) The navigation system of claim 16, wherein the navigation device is adapted to 23. communicate with and retrieve navigation data from the server using streaming data.

Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

24. (Original) The navigation system of claim 16, wherein the navigation device is adapted to communicate with and retrieve navigation data from the server using cellular communication technology.

25. (Original) The navigation system of claim 16, wherein:

the navigation device includes a processor in communication with a memory; and the processor and the memory of the navigation device are adapted to cooperate to:

identify the sequence of route segments and the sequence of maneuvers associated with the route segments,

determine whether a route segment in the sequence of route segments is significant or insignificant,

provide route guidance for the maneuver associated with a significant route segment, and

account for an insignificant route segment prior to providing route guidance for the maneuver associated with the insignificant route segment.

26. (Currently Amended) A method, comprising:

identifying a sequence of maneuvers associated with a sequence of route segments; determining whether a route segment in the sequence of route segments is significant or insignificant;

upon determining that a <u>the</u> route segment is significant, providing route guidance for a maneuver associated with the significant route segment; and

upon determining that a <u>the</u> route segment is insignificant, accounting for the insignificant route segment prior to providing route guidance for a maneuver associated with the insignificant route segment, wherein accounting for insignificant route segments includes nullifying the maneuver associated with some insignificant route segments and modifying the maneuver associated with other insignificant route segments.

27. (Canceled)

Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

28. (Canceled)

29. (Original) The method of claim 26, wherein accounting for the insignificant route segment prior to providing route guidance for a maneuver associated with the insignificant route segment includes:

determining whether the maneuver associated with the insignificant route segment is to be modified;

upon determining that the maneuver associated with the insignificant route segment is to be modified, modifying the maneuver associated with the insignificant route segment; and upon determining that the maneuver associated with the insignificant route segment is not to be modified, nullifying the maneuver associated with the insignificant route segment.

- 30. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes determining whether the route segment has a name.
- 31. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes determining whether the route segment has a length less than a predetermined distance.
- 32. (Original) The method of claim 31, wherein determining whether the route segment has a length less than a predetermined distance includes determining whether the route segment has a length less than about 100 meters.
- 33. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes determining whether the route segment has a length less than a length of a successive route segment.
- 34. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification.

Page 7

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Dkt: 1528.010US1

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Page 8 Dkt: 1528.010US1

35. (Original) The method of claim 34, wherein:

determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification includes determining whether the route guidance maneuver for the route segment and the route guidance maneuver for the successive route segment qualify for modification; and

upon determining that the route guidance maneuver for the route segment and the route guidance maneuver for the successive route segment qualify for modification, modifying the route guidance maneuver for the route segment.

36. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes:

determining whether the route segment has a name;

determining whether the route segment has a length less than a predetermined distance; determining whether the route segment has a length less than a length of a successive route segment; and

determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification or modification.

37. (Original) The method of claim 26, wherein determining whether a route segment is significant or insignificant includes:

determining whether the route segment has a name;

upon determining that the route segment does not have a name, determining whether the route segment has a length less than a predetermined distance;

upon determining that the route segment has a length less than a predetermined distance, determining whether the route segment has a length less than a length of a successive route segment; and

upon determining that the route segment has a length less than a length of a successive route segment, determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification or modification.

Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Page 9 Dkt: 1528.010US1

38. (Previously Presented) An electronic navigational aid device, comprising:

a processor; and

a memory adapted to communicate with the processor, wherein the processor and memory are adapted to cooperate to:

identify a sequence of route segments and a sequence of maneuvers associated with the route segments;

determine whether a route segment in the sequence of route segments is significant or insignificant;

provide route guidance for a maneuver associated with a significant route segment; and

account for an insignificant route segment prior to providing route guidance for the maneuver associated with the insignificant route segment,

wherein the processor and the memory determine whether a segment in the sequence of route segments is significant or insignificant by:

determining whether the segment has a name;

determining whether the segment has a length less than a predetermined distance; determining whether the segment has a length less than a length of a successive segment; and

determining whether a route guidance maneuver for the segment and a route guidance maneuver for a successive segment qualify for nullification or modification.

39. (Currently Amended) A method, comprising:

accessing a sequence of maneuvers associated with a sequence of route segments; determining whether a route segment from the sequence of route segments is significant or insignificant, including: wherein determining whether a route segment is significant or insignificant includes:

determining whether the route segment has a name;

Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Page 10 Dkt: 1528.010US1

determining whether the route segment has a length less than a predetermined distance;

- determining whether the route segment has a length less than a length of a successive route segment; and
- determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification or modification;

upon determining that a the route segment is significant, providing route guidance for a maneuver associated with the significant route segment; and

upon determining that a <u>the</u> route segment is insignificant, accounting for the insignificant route segment prior to providing route guidance for a maneuver associated with the insignificant route segment, wherein accounting for the insignificant route segment includes modifying the maneuver associated with the insignificant route segment.

40. (Currently Amended) A method, comprising:

accessing a sequence of maneuvers associated with a sequence of route segments; determining whether a route segment in the sequence of route segments is significant or insignificant, wherein determining whether a route segment is significant or insignificant includes:

determining whether the route segment has a name;

upon determining that the route segment does not have a name, determining
whether the route segment has a length less than a predetermined distance;
upon determining that the route segment has a length less than a predetermined
distance, determining whether the route segment has a length less than a
length of a successive route segment; and

upon determining that the route segment has a length less than a length of a successive route segment, determining whether a route guidance maneuver for the route segment and a route guidance maneuver for a successive route segment qualify for nullification or modification;

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Serial Number: 10/032196

Filing Date: December 21, 2001

Title: GUIDANCE WITH FEATURE ACCOUNTING FOR INSIGNIFICANT ROADS

Page 11 Dkt: 1528.010US1

upon determining that a <u>the</u> route segment is significant, providing route guidance for a maneuver associated with the significant route segment; and

upon determining that a route segment is insignificant, accounting for the insignificant route segment prior to providing route guidance for a maneuver associated with the insignificant route segment, wherein accounting for the insignificant route segment includes modifying a first maneuver and nullifying a second maneuver associated with the insignificant route segment.